



OMB No. 2010-0032  
Expiration Date 01/31/2010

## 2007 Performance Track Annual Performance Report

### **Covanta Hempstead Company A020052**

**Year 3 Annual Performance Report  
Member Since 2002 (2nd Member Term)**

**SECTION A: GENERAL FACILITY INFORMATION**

A.1 Name of your facility:

Covanta Hempstead Company

A.2 Name of your parent company:

Covanta Energy Corporation

A.3 Facility contact person for the Performance Track program:

Name: Mr. Scott Wheeler  
Title: Environmental Engineer  
Phone: (516) 683-5438  
Fax: (516) 683-1413  
Email: [swheeler@covantaenergy.com](mailto:swheeler@covantaenergy.com)

A.4 Facility location:

Facility Address

Street Address: 600 Merchants Concourse  
Address Cont:  
City: Westbury  
State: NY  
Zip Code: 11590

If your facility has multiple street addresses, please list any other addresses for its sites or buildings.

A.5 Facility's website address (if any):

<http://www.covantaholding.com>

A.6 Number of employees (full-time equivalents) who currently work in the facility:

50-99

A.7

For the purposes of where your facility would be listed in our Member Directory, please list the North American Industrial Classification System (NAICS) Code(s) that is (are) used to classify business at the facility:

Primary	Secondary	Tertiary	Quaternary	Quinary
562213	221119			

**A.8.a** List the activities, products, or services that take place at your facility:

Covanta Hempstead is an Energy-from-Waste facility that combusts municipal solid waste for volume reduction and generates electricity that is sold to the local utility for distribution to end users. The facility is permitted to process up to 975,000 tons of waste per year, based on a 12-month rolling total. Ferrous and non-ferrous metals are recovered from the ash residue prior to disposal and recycled.

**A.8.b** Provide the size and general description of your site:

The Hempstead facility is located on a 15-acre parcel of land in a commercial / residential area. The property is bounded by a commercial strip center, an FAA air traffic control center and a highway, with a condominium complex across the street.

**A.9** Have the environmental requirements applicable to your facility changed during this reporting period?

No

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## SECTION B: ENVIRONMENTAL MANAGEMENT SYSTEM

**B.1.a** Is your facility certified to ISO 14001?

No

**B.1.b** Is your facility's EMS (not your corporate office's EMS) certified to the American Chemistry Council's Responsible Care® program (i.e., has your facility successfully undergone a Responsible Care® third-party audit)?

No

**B.2** Performance Track members must have their EMS assessed by an independent party at least once every three years. Please indicate the details of the most recent independent assessment conducted at your facility. If your most recent independent assessment did not cover all EMS elements and business areas, please use the "Add Assessment" button to indicate the additional partial assessments.

Independent EMS Assessment #1

When was this EMS assessment? June 2008

What protocol was used?	PT Independent Assessment Protocol Specify:
Who conducted the audit?	Name: Christopher Kolarz Title: CEO Organization: Environmental Management Strategies, Inc.
Which EMS elements were included in the audit?	Policy, Planning, Implementation, Checking, Management
Did the assessment cover the entire facility or part of the facility?	Entire Facility
Which business areas were included in the audit?	

- B.3 EPA recommends that Performance Track members conduct an internal EMS assessment every year. Did you conduct one in calendar year 2007?

Yes

Internal EMS Assessment #1

When was this EMS assessment?	November 2007
Which EMS elements were included in the audit?	Planning, Implementation, Checking, Management
Did the assessment cover the entire facility or part of the facility?	Entire Facility

- B.4 EPA recommends that Performance Track members conduct a regulatory compliance audit every year. Did your facility conduct any audits in calendar year 2007 to verify compliance with regulatory statutes?

Yes

Regulatory Compliance Audit #1

When was this regulatory compliance audit?	July 2007
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Which regulations were included in the audit?

Clean Air Act (CAA)  
Clean Water Act (CWA)  
Emergency Planning & Community Right-To-Know Act (EPCRA)  
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)  
Resource Conservation and Recovery Act (RCRA)  
Toxic Substances Control Act (TSCA)

B.5 Please describe any other audits, inspections, or facility reviews conducted at your facility during the previous three years.

1. An internal compliance audit is conducted every six months and the results are incorporated into the performance bonus paid to all employees at the facility. The facility is inspected for items such as housekeeping, chemical storage, control of fugitive emissions, regulatory reporting and proper waste management. Audits were completed in March and November, 2007. 2. A general facility inspection is completed each year by an individual licensed to practice engineering in the state of NY. The purpose of the inspection is to verify compliance with all applicable regulations and to evaluate the operating condition of the facility. The results of the inspection are documented in a summary report and submitted to the NYS Department of Environmental Conservation (NYSDEC). 3. An on-site Environmental Monitor from the NYSDEC is assigned to the facility and conducts compliance inspections an average of two to three times per week. He focuses on solid waste management and air quality regulations and reports his findings to the facility after each inspection.

B.6.a Has your facility corrected all instances of potential non-compliance and EMS non-conformance identified during your audits and other assessments?

No

B.6.b Performance Track members should have a Senior Management Review of their EMS every year. Did this review take place in calendar year 2007?

Yes

Who was the senior manager present at the review?

Name: Mr. Kenneth Armellino, P.E.

Title: Regional Environmental Manager

B.6.c Performance Track members should conduct a systematic identification and/or review of their environmental aspects at least once every two years. When was your last one conducted?

March 2007

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## SECTION C: ENVIRONMENTAL PERFORMANCE RESULTS

**Goal 1: Covanta Hempstead Company's first goal is to reduce the facility's transportation energy use, specifically diesel fuel.**

C.1.a Briefly describe your activities and achievements related to this goal or, if relevant, any circumstances that delayed progress this year.

This goal was achieved in 2006 following the installation of fuel catalyst devices on our mobile equipment. A similar savings in diesel fuel usage was demonstrated in 2007.

Activities Conducted During 2006:

The fuel catalyst devices that were purchased in 2005 were installed in our two 980 payloaders in July 2006 and in our mobile street sweeper in September 2006. We saw an immediate improvement in fuel efficiency and despite only five months of run time with the units installed, were able to achieve our commitment to reduce diesel fuel usage.

Activities Conducted During 2005:

In May 2005, we purchased three fuel catalyst devices that will be installed on our heavy equipment (two payloaders and a mobile sweeper) and we are currently working with the supplier to schedule a date for installation. We also gathered additional baseline data in terms of gallons per hour that the equipment is used. One delay that we encountered was the replacement of our mobile sweeper. Since we did not want to install the fuel catalyst on the old sweeper, only to have to remove it, we waited for the delivery of the new sweeper, which occurred in late 2005.

C.1.b Describe the data collection process and data source(s) that you used to measure progress towards this goal.

The diesel fuel fill nozzle is equipped with a flow meter that is read and recorded daily. A log is also maintained indicating which piece of equipment was fueled.

C.1.c Please report your facility's actual performance.

Performance Data						
Flexible Form Needed?		No				
	Baseline	Year 1	Year 2	Year 3	Perform.	
Calendar Year	2004	2005	2006	2007	Goal	Units
Exclude	No	No	No	No	No	
Reason for Exclusion						
<b>Actual Quantity (per year)</b>	44,421	45,160	38,603	33,730	n/a	gallons

C.1.d Normalized progress toward goal.

Normalized Total	Baseline	Year 1	Year 2	Year 3	Perform. Goal	Units
Normalizing Factor	1.0	0.996	0.992	1.0		
<b>Normalized Quantity</b>	44,421	45,341.37	38,914.31	33,730.00	42,871	gallons
The normalizing factor for this Commitment is the number of kilopounds of steam generated in the facility's boilers, which is directly related to the number of tons of						

Basis for your Normalizing Factor:	solid waste processed. Tons processed determines the number of hours the front-end loaders are used, and in turn, the amount of fuel consumed.
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**Goal 2: Covanta Hempstead Company's second goal is to reduce the facility's production of noise.**

C.2.a Briefly describe your activities and achievements related to this goal or, if relevant, any circumstances that delayed progress this year.

This goal was to reduce the noise generated during the off-loading of pebble lime delivered to the facility for use in the acid gas scrubbers. In 2007, we installed a new lime blower with a sound proof enclosure around it. While the noise in the immediate unloading area was not completely eliminated, it was significantly reduced and cannot be heard at the facility fence line.

**Activities Conducted During 2006:**

The equipment required to achieve this commitment was purchased and received in December 2006. It is scheduled to be installed during the second quarter of 2007, in conjunction with another large capital project. Since the benefits will be immediate, we will have no problem achieving this commitment in 2007.

**Activities Conducted During 2005:**

No progress has been made toward this commitment because it requires a capital project that had to be budgeted for 2006. The project, which includes installation of a new air compressor, is currently scheduled for late summer, 2006.

C.2.b Describe the data collection process and data source(s) that you used to measure progress towards this goal.

Progress toward this goal was measured based on the noise level in the lime unloading area, which was measured using a sound level meter with a range of 40 to 140 dB (Quest Electronics, ANSI S1.4, Type 2, Model 215).

C.2.c Please report your facility's actual performance.

Performance Data						
Flexible Form Needed?		No				
	Baseline	Year 1	Year 2	Year 3	Perform.	
Calendar Year	2004	2005	2006	2007	Goal	Units
Exclude	Yes	Yes	Yes	Yes	Yes	
Reason for Exclusion		While facility notes that they observe noise levels at fence line, data is collected in unloading area.				
Actual Quantity (per year)	100	100	100	85	80	dBa

## C.2.d Normalized progress toward goal.

Normalization is not applicable for this commitment

**Goal 3: Covanta Hempstead Company's third goal is to increase the facility's land and habitat conservation.**

C.3.a Briefly describe your activities and achievements related to this goal or, if relevant, any circumstances that delayed progress this year.

This goal was achieved in 2006 - no further action was required in 2007.

Activities Conducted During 2006:

The equipment purchased by the Center for Science Teaching and Learning, using funds donated by Covanta Hempstead, was installed at the entrance to the creek that feeds the Preserve's waterway in late Summer 2006. The resulting control of litter and silt will help to preserve 10 acres of natural habitat. This commitment has been achieved.

Activities Conducted During 2005:

The monetary donation to achieve this commitment was made to the Center for Science Teaching and Learning, located at the Tanglewood Preserve in Rockville Center, NY in December 2005. The funds will be used to purchase a litter control device and a silt fence that will be installed at the entrance to the creek that feeds the Preserve's stream and pond system to preserve this habitat for native species. The litter control device is scheduled to be installed in early Summer 2006.

C.3.b Describe the data collection process and data source(s) that you used to measure progress towards this goal.

Completion of this goal was based on the acreage of the Preserve. The 10 acres listed for 2007 in C.3.c. below was the same 10 acres as 2006, not 10 additional acres.

C.3.c Please report your facility's actual performance.

Performance Data						
Flexible Form Needed?		No				
	Baseline	Year 1	Year 2	Year 3	Perform.	
Calendar Year	2004	2005	2006	2007	Goal	Units
Exclude	No	No	No	No	No	
Reason for Exclusion						
<b>Actual Quantity (per year)</b>	0	0	10	10	10	acres

## C.3.d Normalized progress toward goal.

Normalization is not applicable for this commitment

**Goal 4: Covanta Hempstead Company's fourth goal is to reduce the facility's NOx emissions.**

C.4.a Briefly describe your activities and achievements related to this goal or, if relevant, any circumstances that delayed progress this year.

This goal was achieved in 2005 and maintained at a similar level in 2006 and 2007. As in previous years, additional chemical reagent (urea) was injected into the facility's three furnaces to control NOx emissions below our permitted limit.

Activities Conducted During 2006:

Similar to 2005, additional chemical reagent (urea) was injected into the Facility's three furnaces to control NOx emissions below our permitted limit. This commitment was achieved in 2005 and maintained at a similar level in 2006.

Activities Conducted During 2005:

This commitment was met in 2005 by injecting additional chemical reagent (urea) into the Facility's three furnaces, above and beyond the quantity required to achieve compliance with our NOx emission limit.

C.4.b Describe the data collection process and data source(s) that you used to measure progress towards this goal.

Emission data are collected by NOx analyzers that are installed on each of the three boilers and are part of the continuous emissions monitoring system, which measures and records data 24 hours per day, 7 days per week. Concentration data collected by the analyzers are converted to mass emissions using a formula in our Title V operating permit.

C.4.c Please report your facility's actual performance.

Performance Data						
Flexible Form Needed?		No				
	Baseline	Year 1	Year 2	Year 3	Perform.	
Calendar Year	2004	2005	2006	2007	Goal	Units
Exclude	Yes	Yes	Yes	Yes	Yes	
Reason for Exclusion		Excluded per susan's comment in review form - NOx level only reflects compliance.				
Actual Quantity (per year)	1,698	1,323.5	1,307.5	1,231.4	n/a	Tons

C.4.d Normalized progress toward goal.

Normalized Total	Baseline	Year 1	Year 2	Year 3	Perform. Goal	Units
Normalizing Factor	1.0	0.996	.992	1.0		
Normalized Quantity	1,698	1,328.82	1,318.04	1,231.40	1,442	Tons

Basis for your Normalizing Factor:	The normalizing factor for this Commitment is the number of kilopounds of steam generated in the facility's boilers, which is directly related to facility availability and therefore, potential mass emissions of NOx.
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#### Progress Towards Other Significant Aspects of your EMS

In the table below, please provide a narrative summary of progress made toward EMS objectives and targets other than those reported as Environmental Performance Goals. You may limit the summary to environmental aspects that are significant and towards which progress has been made during the reporting year.

Do you have additional environmental aspects to report? No

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## SECTION D: PUBLIC OUTREACH AND PERFORMANCE REPORTING

### D.1.a Please describe your process to identify potential community environmental concerns.

Our main means of receiving feedback from the community is through our telephone "hotline," which is connected to an answering machine. The outgoing message directs the caller to use our main phone number during normal business hours and the machine is checked regularly for messages. In addition, our immediate neighbors have contact information for plant management so calls can be placed directly. Finally, as detailed in D.1.c. below, we meet with community leaders about every 6 weeks.

### D.1.b If you identified community environmental concerns, how did you respond to them?

We treat all community concerns seriously and respond to them immediately. We send plant personnel out to investigate potential issues when feasible and always invite the caller in for a facility tour to help them better understand our operation and the environmental controls that are in place.

In 2007, we received a few complaints from employees at the shopping center adjacent to the facility about deposits on their cars. Upon investigation, we determined that our cooling tower may have been causing this problem, since de-misters were not installed during a prior maintenance outage. The de-misters were installed shortly thereafter, which reduced the moisture being emitted from the tower and stopped the complaints.

### D.1.c

Please describe how you informed the community about environmental matters related to your facility.

1. The Facility Manager and Environmental Engineer meet with the local Solid Waste Advisory Committee (SWAC) approximately every 6 weeks to discuss environmental and operational issues at the facility and to answer any questions from the group. There were 9 meetings in 2007 and the December meeting was held at the facility.
2. The facility hosted a total of 79 tours for 1505 visitors in 2007. Of these, 17 tours (252 students) were for science courses such as Biology and Environmental Science taught at local colleges.
3. On April 28, 2007, we hosted an Open House that attracted 103 interested residents. Facility tours were conducted and informational handouts were available.

- D.2 How did you share information with your community on your own facility's environmental performance, including making your APR publicly available? Please check all that apply:  
Open House, Meetings, Community Advisory Panel, Bulletin Board

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## **SECTION E: SELF-CERTIFICATION OF CONTINUED PROGRAM PARTICIPATION FOR ANNUAL PERFORMANCE REPORT**

The U.S. Environmental Protection Agency is not yet in a position to accept electronic signatures and therefore requests a faxed, signed copy of the Section E page. Please complete Section E online, then print Section E using the link on the Overview page. Section E should be signed by the senior manager of your facility and faxed it to the Performance Track Information Center at (617) 354-0463.

On behalf of Covanta Hempstead Company, I certify that:

- I have read and agree to the terms and conditions as specified in the National Environmental Performance Track Program Guide. This facility, to the best of my knowledge, continues to meet all program criteria;
- I have personally examined and am familiar with the information contained in this Annual Performance Report. The information contained in this report is, to the best of my knowledge and based on reasonable inquiry, true, accurate, and complete;
- My facility has an environmental management system (EMS), as defined in the Performance Track EMS criteria, including systems to maintain compliance with all applicable federal,

state, tribal, and local environmental requirements, in place at the facility, and the EMS will be maintained for the duration of the facility's participation in the program;

- My facility has conducted an objective assessment of its compliance with all applicable federal, state, tribal, and local environmental requirements; and the facility has corrected all identified instances of potential or actual noncompliance; and
- Based on the foregoing compliance assessments and subsequent corrective actions (if any were necessary), my facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with applicable federal, state, tribal, and local environmental requirements.

I agree that EPA's decision whether to accept participants into or remove them from the National Environment Performance Track is wholly discretionary, and I waive any right that may exist under any law to challenge EPA's acceptance or removal decision. I am the senior manager with responsibility for the facility and am fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is part of the National Environmental Performance Track program.

Signature/Date:

Name: Mr. Kenneth Straitz

Title: Facility Manager

Facility Name: Covanta Hempstead Company

Facility Street Address: 600 Merchants Concourse  
Westbury, NY 11590

Mailing Address:

Performance Track ID#: A020052